

AGC/WSDOT Structures Team Meeting

May 17, 2002

9:00 AM –12:00 PM NWR Corson Avenue Facility

Attendees:	Company	Phone	E-mail
Barry Brecto	FHWA	360-753-9482	BarryBrecto@fhwa.dot.gov
Charlie McCoy	Atkinson Const.	425-255-7551	cmcco@Atkn.com
Forrest Dill	AGC	425-745-4701	Forrest.D.Dill@worldnet.att.net
John Quigg	Quigg Brothers	360-533-1530	johnq@quiggbros.com
John VanLund	WSDOT	360-705-7217	vanlunj@wsdot.wa.gov
Karsten Olson	Max J. Kuney	509-535-0651	karsten@maxkuney.com
Kevin Parrish	Mowat Constr.	425-398-0205	kevinp@mowatco.com
M. Sheikhezadeh	WSDOT	360-705-7828	sheikhm@wsdot.wa.gov
Marco Foster	WSDOT	360-428-1593	fosterm@wsdot.wa.gov
Millard Barney	Concrete Tech.	253-383-3545	mbarney@concretetech.com
Ralph Robertson	WSDOT-Eastern	509-324-6021	Robertr@wsdot.wa.gov
Ron Lewis	WSDOT	360-705-7827	LewisR@wsdot.wa.gov
Scott Ayers	Wilder Const.	425-551-3100	scottaye@wilderconstruction.com
Tom Madden	WSDOT	206-768-5861	maddent@wsdot.wa.gov

The March 29, 2002 minutes were approved with no changes.

Self Compacting Concrete

Millard Barney and James Corcoran of the Concrete Technology Corp(CTC) gave a presentation on the self compacting concrete. The presenters discussed the results of their experimentation with the self-compacting concrete at CTC. CTC conducted two stages of testing. The focus during the first stage was primarily with regards to effects of admixtures to early strength and flowability. The concrete had type 3 cement, equal weights of sand and aggregate of ¾" diameter, fly ash, and admixtures. The water cement ratio of 0.31 was used. For the second stage of testing, a pre-stressed beam of 3' X 2' X 30' was cast. Concrete was placed from one end of the beam in three lifts. The top of beam was raked in 45 minutes. The concrete took an initial set in about 4 hours (with an approximate compressive strength of 500 psi). The beam was cut at two different locations. All cross sections showed uniform and well distributed aggregates. Compressive strengths of 7,400 psi in 16 hours and 11,000 psi in 28 days were achieved. The self compacting concrete cost is about \$5 per cubic yards more than conventionally placed high strength concrete. Millard indicated that more testing was needed before the CTC would start using this mix for production girders.

1. Stay in Place Forms

The State will use concrete stay in place forms for the upcoming Salmon Creek and the Hood Canal Bridge projects.

2. Lewis and Clark Bridge

This upcoming deck replacement project will require each of the 115 pre-cast composite deck and stringer panels to be replaced within the 8 hours of nightly closures. This project is scheduled for October 2002 ad date.

Action Item: Ron Lewis will invite the Project Engineer to give an overview of the project before the group for constructibility review.

3. Maturity Meter

No advantages for installation of maturity meters in structures is foreseen for now.

4. Clarification of Structural Shoring “Near” RR Tracks

No revisions to the current Specifications is necessary for now.

5. New Topics

- Kevin Parrish, on behalf of the Graham Steel, requested that stirrups for the variable depth concrete boxes be field bent. Also, stipulation of A 706 rebars will guard against rebar cracking during field bending. Plans should allow for stirrups to be field bent as an alternate. Ron Lewis indicated that for the current contracts, contractors might request this change.

Action Item: John VanLund will pursue this proposal through the Bridge and Structures Office and report back.

- Tom Madden wishes to schedule the Consultant working on the Alaskan way Viaduct for a presentation for constructibility.

Action item: Ron and Tom will coordinate for a presentation date.

- Karston Olson requested that joint fillers placed at the bottom of stub abutment end diaphragms be removed or substituted with a different type of material, possibly butyl rubber.

Action Item: John VanLund will pursue this proposal through the Bridge and Structures Office and report back.

6. The meeting adjured at 11:00 AM. Next Meeting July 12, 2002, 9:00 AM Corson Ave. Facility

